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very far from the truth; but it is better to err in this way than, by confining ourselves to the establishment of dry abstract principles, however interesting or important, to let pass an opportunity of forcibly drawing the attention of the public to a great evil, equally commanding and ad-

mitting of a remedy.

In all investigations of this nature there is much room for error. Some standards of comparison essential to accuracy are at present wanting Causes and effects are so mixed up that it is impossible to separate them. The disease which by destroying the adult puts a younger man into his place, also alters the distribution of the population, so as to swell the number of its own victims; and thus all attempts at perfect accuracy are rendered abortive. Approximations confessedly imperfect, and estimates necessarily rude, must hold the place of those accurate results The author would therefore again guard which force conviction. against misconception. He has not dared to characterise his results as certain or accurate, but merely as approximations to truth, and probabilities more or less strongly confirming one another. His estimates are open to correction, and await that correction at the hands of himself or others; but he trusts that, in the absence of that certainty of which he is in search, the probabilities he has established will serve the purpose of attracting attention to a part of the great subject of public health which has hitherto received comparatively little attention; and, in conclusion, he may be allowed to express his own conviction, that the evils which have been pointed out are not exaggerated.

Two tables are subjoined, which form a useful summary of the chief probabilities thrown together in the three communications, of which this

is the last.

On the Progress of the Population of Russia. By Major Graham, Registrar-General.

Sir, General Register Office, June, 1844.

I ENCLOSE an abstract of a Return which I have recently received of the population, marriages, births, and deaths, in the principal provinces of the Russian empire. I am indebted to the liberality of Count Nesselrode for this Return; which was procured at the instance of Lord Aberdeen, by Lord Stuart de Rothsay, and forwarded to me by Sir James Graham.

I have obtained from other countries similar Returns, to compare with those made under the Registration Act in England. I submit this to the Members of the Statistical Society, as I believe that no Return of the kind has been published before out of Russia; and it appears to me to possess an unusual degree of interest, not only from its novelty, but from the extent of the population, and the varieties of climate and circumstances in which the people of the several provinces are placed.

The Return is for the year 1842, and the abstracts of marriages, births, and deaths, had not been received from Georgia, Koursk, the Trans-Caucasian, or the Caspian provinces: neither have we included in the Return Finland, Poland, the Don Cossacks, the Cossacks in the country of the Black Sea, and of the Oural; the provinces of Iakotsk, Kamschatka, Okhotsk, or Russian America. The population of the Russian empire exceeds 60,000,000; of which the Returns from 53

provinces specify 52,682,711; and give the marriages, births, and deaths among 49,525,420 persons (24,559,414 males, and 24.966,006 females) in the European (and partly Asiatic) provinces,—in Tobolsk, Tomsk, Irkutsk, and Eniseisk,—four provinces of Siberia. The marriages returned were 501,850; the births 2,205,422; the deaths 1,856,183.

The excess of births over deaths was 349,239. This would indicate an increase of 0.7 per cent. (or 7 per 1000) annually.

				Males.	Females.	Total.
Population Married . Births . Deaths .	:	:	•	24,559,414 501,850 1,127,122 931,635	24,966,006 501,850 1,078,300 924,548	49,525,420 1,002,760 2,205,422 1,856,183

The proportion of marriages, births, and deaths, to the population, is shown in the annexed Table (A). I think it very probable that the Returns of births and deaths include still-born children, which are generally registered on the Continent, but have not hitherto been registered in England. As the Returns stand, the births were 4.45 per cent., the deaths 3.75 per cent., of the population. A correction for the still-born would reduce the births to about 4.2, the deaths to 3.5 per cent.

In Russia 1 in 99 persons marries yearly; in England the proportion of marriages is much less, 1 in 128. The births in Russia are more than 8 per cent. on the female population. The mortality in Russia was 1 in 27; and as the population is increasing, we know that the mean duration of life is somewhat lower than 27 years. The mortality in England is 1 in 45 annually, and the expectation of life 41 years.

The comparison would seem to indicate that in Russia marriages are earlier than in England—that more persons marry—that the number of children borne by a given number of women is greater in a given time—that fewer children attain maturity—and that, notwithstanding the rigorous climate, and the causes of insalubrity, the excess of births over deaths adds 300,000 or 400,000 persons every year to the part of

the population embraced in the Returns.

The area of the Russian empire is estimated at 7,700,000 English square miles. The area of the 49 European provinces, for which the population of 49,102,697 was returned, is 1,731,324 English square miles; the density is therefore 28 persons to an English square mile, and 38 to a geographical square mile. The density of England and Wales was 276 persons to an English, 366 to a geographical, square The area of the two provinces of Siberia, -Tobolsk and mile, in 1841. Tomsk,—is said by Mr. Koeppen in an official statement (quoted by M'Culloch) to be equivalent to 1,887,569 English square miles. population of these provinces was 1,315,461 in 1842; and the mean density was therefore less than 1 person to every square mile,—it was 7 to 10 square miles. In the rest of the empire around the arctic region, to which our Return does not extend, there is, according to Mr. Koeppen's statement, not more than 1 person to 4 English square miles. Russia, as is well known, is divided into viceroyalties, provinces (or oblasts), and districts. The Return in my possession gives the population, marriages, births, and deaths, in each district and province. The abstract which I enclose carries the subdivision no further than provinces.

The Table (B) of the proportion of marriages, births, and deaths, in each province to 100 females living, shows that in some parts of Russia the mortality is less than in some counties of England; but, as a general rule, the mortality was greater than in England. It was greatest in the southern provinces,—from Nijgorod to Ekaterinoslav on the Sea of Azov, including the most fertile of the corn districts, Kharkoff, Penza, Pultava, Viatka, Nijgorod, Saratoff, Riazan, Ekaterinoslav, Orel, Tamboff. The annual mortality was from 4.3 to 5.3 per cent. in these provinces, which lie in the basin of the Dnieper, Don, and Volga; with the general aspect of the country looking south, and towards the Black Sea, the Caucasus, and the Caspian.

The mortality of the northern parts of Russia is generally below 3 per cent. annually; this was the case in Archangel, Minsk, Courland, Esthonia, Olonetz, Pskoff, Vologda, Kalouga, Grodno, Vitepsk, Novgorod, Moghileff. The rivers of those regions flow north or northwest into the Arctic Ocean, the White Sea, and the Baltic. In Wilma and Livonia, the mortality was 3·3 and 3·2, slightly above 3 per cent; in Petersburgh (province) 3·8 per cent: with these exceptions, the mortality of the parts sloping towards the north or north-west, was a fourth or a fifth less than in the southern provinces.

In Tomsk and Irkoutsk, two vast provinces of Siberia, the mortality was so low as 2.4 per cent.; in Tobolsk, however, it was 3.6 per cent.

These remarks refer to females, but the mortality of males and females is nearly the same in Russia.

This Return, I may remark, has evidently been drawn up with great care and accuracy. It gives us a high opinion of the administrative talent and energy with which the Government is carried on.

Those acquainted practically with these matters will be aware how arduous an undertaking it must be to procure a census, and periodical Returns of the marriages, births. and deaths, from such a vast population, so thinly scattered over the face of the country, that in some provinces there is not one inhabitant to a square mile of territory.

The mere fact of registering the marriages, births, and deaths, is also a proof of the deep interest with which the Russian Government regards, and endeavours to promote, the physical interests of the population under its charge.

I am, Sir,
Your obedient Servant,
GEORGE GRAHAM,
Registrar-General.

Joseph Fletcher, Esq., &c.

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TABLE A.

Rate of Increase of the Population of Russia; and Proportion of Marriages, Births, and Deaths, to the Population, in England and Russia, compared.

Annual rate of increase	, • 7	per cent.—Males,	.81	Females,	·62.
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	On	e Marriag	e to		ne Birth	to	One Death to				
	Males.	Females	Males and Females	Males.	Females	Males and Females		Females	Males and Females		
Russia (1842)	49	50	99	11	11	22	26	27	27		
England (1838-41)	63	65	128	15	16	31	43	47	45		

	To l	00 Male	3	To l	00 Fema	les.	To 100 Persons.						
	Marriages.	Births.	Deaths of Males.	Marriages.		Deaths of Females	Marriages.	Births.	Deaths.				
Russia* England .	2·043 1·599		3·793 2·308			3·703 2·131	1	4·453 3·197	3·748 2·219				

* The still-born are probably included in the Russian returns of births and deaths. Applying a correction derived from the Prussian returns, in which the numbers still-born are specified, the corrected mortality of Russia will be 3.590, the births 4.296, per cent. annually.

Note.-The return does not state the ages of the living, the ages at death, nor the causes of death; but it is very probable that all these particulars will ultimately be procured. Professor Schubert's volume, "Das Russiche Reich," in his "Handbuch der Allgemeinen Staatskunde von Europa," contains a tolerably good account of the progress of statistics in Russia. The first census (Revision) was taken in 1723, in connexion with a poll-tax, and was to be repeated every 20 years; but it embraced only 5,794,928 males subject to the tax. The church registers were instituted by Peter the Great, in 1722; but their organization was only completed in the time of Catharine II. "From the time of Catharine," says Schubert, "two abstracts were made: (1) the one for the Senate, classed in governments and provinces, first introduced in 1768 by Count Sievers in the governments of Novogorod It embraces all the religious sects, but has not hitherto been made public ("sind aber bis jetzt noch nicht öffentlich bekaunt gemacht"). (2) The other return, for the Holy Synod, is made in 36 eparchies, which only comprise the members of the Greek Catholic Church (Griechish Catholischen Kirchen). A summary of this return is published every year." Schubert's calculations are all founded on the ecclesiastical returns. It appears, therefore, that Russia has had for many years two systems of registration in operation (as England has at the present time),-the registers of the established Greek Church,-and the civil registers, which are made for the Imperial Government, and of which the return in Table C. is a detailed abstract.

Table B.—Density of the Population, and Proportion of Marriages, Births, and Deaths, in the several Provinces of Russia.

Births, and Deaths, in the several Provinces of Russia.													
		Average Popu- lation to a Geo-	То 100	Females I	iving.								
		graphical square Mile (of 60 to a Degree).	Marriages.	Births.	Deaths (of Females).								
NT 43	1. Archangel	•9	1.546	8.100	2.222								
Northern Provinces.	2. Olonetz	6	1.911	$9 \cdot 412$	$2 \cdot 692$								
r lovinces.	3. Vologda	7	1.841	9.306	2.801								
	4. Petersburgh.	41	1.756	9.739	3.770								
1	5. Novgorod	21	1.828	$9 \cdot 102 \\ 9 \cdot 112$	2.972 2.766								
	6. Pskoff	43 70	$1.523 \\ 2.247$	9.823	3.269								
	7. Smolensk	159	2.135	9.019	4.010								
	9. Tver	74	1.930	9.301	3.030								
	10. Jaroslaff	79	1.440	8.188	3.367								
Great	11. Kostroma	43	1.592	7.626	3.290								
Russia.	12. Nijgorod	79	1.950	8.758	4.684								
	13. Wladimir	85	1.821	8.352	3.941								
	14. Riazan	109	2.517 1.930	8 · 296 7 · 393	4·450 4·279								
	15. Tamboff	90 139	3.223	8.411	4.171								
	17 17 17 . 1	109	2.138	7.842	2.866								
	18. Orel	117	2.421	9.311	4.320								
	19. Koursk	142		••									
Baltic	20. Esthonia	56	1.657	7.586	2.627								
Provinces.	21. Livon:a	59	1.738	8.158	3.048								
I lovinces.	22. Courland	67	1.772	6.692	2.453								
White	23. Vitepsk	59	1.128	$8.532 \\ 9.263$	2.928								
Russia.	24. Moghileff	63	2·129 1·550	6.800	2.983 2.360								
	25. Minsk	69	1.940	8.911	3.345								
Lithuania.	27. Gredno	82	2.330	9.078	2.922								
	28. Bielostock	103	1.572	7.773	3.025								
	29. Volhynia	82	1.689	8.764	3.764								
	30. Podolia	164	1.991	8.445	3.701								
~ • •	31. Kieff	124	1.878	7.823	3.613								
Little	32. Tchernigoff	94	2·091 2·339	8·842 8·041	3·859 4·727								
Russia.	33. Pultava	95 51	2.339	8.906	5.260								
	35. Voroneje	71	2.240	9.553	3.918								
	36. Don Cossacks	16											
	(37. Ekaterinoslav	43	2.217	9.775	4.435								
New	38. Cherson	49	1.539	8.898	3.294								
Russia.	39. Crimea	16	1.735	12.298	3.422								
	40. Bessarabia	54	2.614	11.003	2.980								
317.1 -	41. Kazan	71	1.903	7·377 8·225	3·310 4·738								
Wolga and	42. Penza · · · · · · · · · · · · · · · · · · ·	91 68	1.976	9.055	3.693								
Caspian	143. Simplified	30	2.025	9.599	4.640								
Provinces.	45. Astrakan	3	1 858	8.750	2.990								
	46. Caucasus, &c	5	3.031	14.317	5.026								
Oural	47. Orenbourg	16	2.665	9.804	3.533								
Provinces.	{ 48. Perm	34	1.817	9.668	3.744								
T IOTHICES.	49. Viatka	38	2.102	10.777	4.725								
	50. Tobolsk	.9 {	1.772	10·138 7·589	3.574								
	51. Tomsk	'l	1.481	6.905	2.395								
Siberia.	52. Irkoutsk	H (1 402	0.300	2.31/								
	chatka, ()khotsk .	} •3 5 {	••	•••	•••								
	56. Eniseisk.	1	1.392	9.735	3.307								
England		366	1.528	6.250	2.131								

^{*} It will be recollected that the English Return of Births is defective, and that the still-born are probably registered in Russia.

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TABLE C
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	between I Deaths.	Females.	1,965 2,464 7,071	2,383 6,041 6,127 8,127 8,298 3,631 2,118 2,118 5,619 2,619 2,019 4,267 4,267 4,267	37,532 1,569 3,656 2,212
	Difference between Births and Deaths.	Males.	2,163 2,154 8,625	1,591 7,014 7,014 3,505 11,247 6,240 2,045 2,252 3,702 3,702 1,586 6,148 6,148	55,005 1,654 4,778 2,500
		Total.	5,169 6,945 22,852	19,045 22,029 20,525 35,509 36,509 36,499 36,495 45,456 53,893 53,893 53,893 53,893 56,596 61,427	7,948 24,738 13,505
	Deaths.	Females.	2,551 3,307 11,602	8,912 10,962 10,962 11,698 26,309 18,916 18,916 26,801 26,91 27,124 27,124 24,08 24,	3,869 12,396 6,679
		Males.	2,618 3,633 11,250	10, 133 11, 067 10, 307 17, 811 26, 648 21, 190 17, 219 17, 528 22, 465 22, 465 22, 465 32, 465 33, 617 31, 067 31, 144 31, 144	4,079 12,342 6,826
		Total.	9,297 11,563 38,548	23,019 33,575 33,666 53,179 62,343 46,006 50,336 50,570 62,207 64,459 87,011 66,559	11, 171 33, 172 18, 217
	Births.	Females.	4,516 5,771 18,673	11, 295 17, 003 16, 345 29, 290 29, 290 22, 547 24, 011 24, 013 24, 013 24, 013 24, 013 24, 013 27, 79 32, 963	5,438 16,052 8,891
		Males.	4,781 5,792 19,875	111,724 16,572 17,321 17,321 17,321 22,483 22,602 26,067 26,067 26,067 26,067 31,483 2	5,733 17,120 9,326
	Marriages.		1,774 2,348 7,628	4,151 6,744 6,744 12,627 12,933 12,933 11,206 10,622 11,243 11,206 11,243 11,243 11,243 11,343 11,343 11,343 11,343 11,343 11,343	2,440 7,068 4,824
	ů.	Total.	222,399 236,570 782,142	465,791 720,623 720,324 1,064,650 1,398,97 1,323,839 1,013,761 979,713 1,103,664 1,128,822 1,128,822 1,128,822 1,230,482 1,164,694 1,175,090 1,408,677 1,808,779	282,776 782,938 512,139
***************************************	Population	Females.	114,784 122,855 414,241	236, 364 368, 892 369, 450 551, 348 651, 348 670, 276 670, 276 5710, 650 5710, 650 6710, 5	147,252 406,628 272,232
		Males.	107,615 113,715 367,901	229, 427 340, 731 350, 874 523, 302 740, 517 653, 563 451, 893 4451, 893 545, 371 620, 933 623, 938 623, 938 623, 938 623, 938	135,524 376,310 239,907
	Area in Square Geographical	Degree.*	243,392 37,664 110,080	11,360 33,120 16,720 16,720 17,962 17,962 17,962 11,912 13,296 11,312 11,312 11,312 11,312 12,080 12,080 12,080 12,080	5,040 $13,216$ $7,600$
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	l		Northern Provinces:— 1. Archangel. 2. Olonetz. 3. Vologda.	Grea Russia:— 4 Peter-burgh 5. Novgorod 6. Pskoff . 7. Smolensk 8. Moscow 9. Tver . 10. Jaroslaff 11. Kostroma. 12. Nijgorod 13. Wladimir 14. Riazan . 15. Tamboff . 16. Toula . 17. Kalouga . 18. Orel .	Batte Provinces: 20. Esthonia 21. Livonia 22. Courland
			North 1. 2. 3.	6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6	Baltho 20. 21. 22.

* The area, as estimated by Mr. Koeppen, an officer in the Russian service, is given by M'Culloch in German square miles, which have here been converted into geographical square miles by multiplying the original numbers by $16 (= 4^2)$. There are 15 German miles to the degree $(= 4 \times 15) = 60$ geographical miles.

1844.]	F	Progress of Populatio	n in Russia.	249
4,782 6,084 5,109	6,047 5,025 915	3,825 2,911 1,750 3,404 6,475 5,073	1,659 4,144 5,953 7,772	1,608 3,745 4,936 318 895 1,499
5,041 7,410 5,086	7,034 5,712 1,306	4,101 5,099 2,837 4,019 4,178 4,743 6,384	2,165 4,671 6,652 7,932	3,558 1,492 4,723 752 710 1,053
22,194 24,892 25,253	43,305 20,540 8,102	53,377 55,603 57,996 52,592 76,257 61,009	35,601 29,251 17,230 19,896	43, 214 46,666 46,707 81,100 4,248 7,666
10,988 12,362 12,302	21,169 10,068 4,017	26,328 27,877 28,901 26,189 38,565 30,741	17,886 14,094 8,302 9,641	21,704 23,865 22,992 39,720 2,000 3,587
11,206 12,530 12,951	22,136 10,472 4,085	27,049 27,726 29,095 26,403 37,692 31,973	17,715 15,157 8,928 10,255	21,510 22,801 23,715 41,380 2,248 4,079
32,017 38,386 35,448	56,386 31,277 10,323	61,303 63,613 62,583 60,015 65,604 51,193 74,960	39,425 38,066 29,835 35,600	48,380 41,429 56,366 82,170 5,853 10,218
15,770 18,446 17,411	27,216 15,093 4,932	30,153 30,788 30,651 29,593 32,090 25,163 36,603	19,545 18,238 14,255 17,413	23,312 20,120 27,928 40,038 2,895 5,086
16,247 19,940 18,037	29,170 16,184 5,391	31,150 32,825 31,932 30,422 33,514 26,030 38,357	19,880 19,828 15,580 18,187	25,068 21,309 28,438 42,132 2,958 5,132
4,232 8,821 8,080	$^{12,277}_{8,026}$ $^{2,088}_{2,088}$	11,814 15,000 15,023 14,191 19,084 12,778 17,580	8,943 6,586 4,208 8,457	12,477 10,634 12,303 17,336 1,243 2,163
739,032 835,478 1,042,378	1,283,187 746,046 265,944	1,410,539 1,515,745 1,586,032 1,348,846 1,618,051 1,140,580 1,535,091	806,466 864,617 517,075 685,249	1,259,647 986,208 1,248,329 1,692,247 141,076 154,955
375,262 414,382 521,295	632,770 344,533 132,811	699, 465 753, 233 799, 957 678, 720 815, 867 574, 835 784, 671	403,321 427,815 242,593 323,561	655,786 503,707 622,512 856,008 66,894 71,371
363,770 421,096 521,083	650,417 401,513 133,133	,074 ,512 ,075 ,126 ,184 ,745	403,145 436,802 274,482 361,688	603,861 482,501 625,817 836,239 74,182 83,584
12,448 13,184 31,728	$18,576 \\ 9,120 \\ 2,592$	17,168 711 9,216 762 12,768 786 14,368 670 16,976 565 22,176 565 21,664 750 No returns	18,976 17,584 32,640 12,704	17,664 10,784 18,256 55,568 45,264 28,848
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		ks	64	Prot
17 h.le Russia:— 23. Vitepsk 24. Moghileff 25. Minsk	Lithuania:— 26. Wilna . 27. Grodno . 28. Bielostock .	ittle Russia:— 29. Volhyuia . 30. Podolia . 31. Kieff . 32. Tchernigoff . 33. Pultava . 34. Kharkoff . 35. Voroneje . 36. Don Cossacks	New Russia:— 37. Ekaterinoslav 38. Cherson 39. Crimea.	Wolga & Caspian Provinces 41. Kazan 42. Penza 43. Simbirsk 44. Saratoff 15. Astrakhan 16. Caucasus, &c.
4 22 26 12 27 27 26	List 20 12 24	Little 29. 30. 31. 32. 33. 34. 35.	X 2 00004	0 44444

Table C.—Population, Marriages, Births, and Deaths, of the several Provinces or Governments in Russia.—continued.

)						F	rog	gr	ess	s	f.	P	op	ula	tion	ı	n	Ru	SS	ia	•			E	Se	pte	ml	er,
Differences between	Births and Deaths.	Females.		11.410	8,236	4,703		į	5,670	3,254	121,2			1,152				+	03	3	393	375	671	•				
Difference	Births an	Males.		13.176	9,417	6,841			5,231	3, 102	2,333			1,359		•	-		7	ř	229	259	833	3				
		Total.		59, 103	55,501	75,171			29,510	12,276	12,055			7,374			 -	-	348	5	930	2,557	9,337	506				
Deaths.		Females		30.163	28,331	38,050			14,245		6//6			3,358			+-	+	110	011	355	1,054	1 118	21.6				† No returns.
		Males.		28.940	27,170	37,151		100	15,265	0,390	0,270			4,016		•	+-	4-	038	1	575	1,503	1 919	21161				† No 1
		Total.		83,689	73,154	86,715		;	40,411	18,632	600,01			9,885		•	 -	+	437	ř	1,552	3,191	3 841					
Births.		Females.		41.573					19,915	9,135	7,900			4,510			+-	- -	000	203	748	1,429	1 780	1,100				
		Males.		42,116	36,587	43,992		90,	20,496	9,497	8,009			5,375		•	+-	+	934	107	804	1,762	0 0 6	10061				
	Marriages.			22.754	13,746	16,916		t	7,065	6,080 1,080	3,342			1,413			+	-1	100	701	588	591	758	2				cts,
		Total.		1.717.625	1,481,638	1,520,986			795,933	519,528	496,627			224,978			838,116	510,385	10 395	20,01	36,249	75,892	71 981	10261				3 of 11 distra
Population		Females.		853,651	756,670	804,613		700	398,624	245,514	239,077	turns.	rurus.	101,537			:	-1-	3 176	2,4,0	13,633	34,932	33,682	300	•	ived.		uished in
		Males.	:		724,968				397,309	274,014	000, /07	No returns	No returns	123,441 101,537			:	+-	6 840	65065	22,616	40,960	38 999	22.6		No returns received.		ot disting
Area in Square	Geographical Miles, 60 to the	Degree.			43,536				1,421,088			000 005 6	,,,,,,,,,,				54,096	-		:	:	:			- M	No re		*(57.) The sex not distinguished in 3 of 11 districts,
			Owat Provinces:-	47. Orenbourg	48. Perm	49. Viatka	Siberia :		Survey Aspendix	Service Servic	52. Irkoutsk		•	56. Eniseisk	Trans-Caucasian Provinces :-		"5/. Georgia, Imeritia.	Caspian Provinces	Kertch-Enikil (townshins)	Tamuil (township and do.)	pendencies)	Odessa (township).	Taganrog (township and)	district)	Block Co.	Oural-Cossacks' country .		* (57.